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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	ATTORNEY DOCKET NO. CONFIRMATION NO.		
10/510,945	10/13/2004	Yasuhiro Shiraishi	Q84019	Q84019 6258		
23373	7590 05/05/2005		EXAM	EXAMINER		
SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W.			KIM, PAUL L			
SUITE 800	ILVANIA AVENUE, N.	ART UNIT	PAPER NUMBER			
WASHINGTON, DC 20037			2857			
			DATE MAILED: 05/05/2009	DATE MAILED: 05/05/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicatio	n No.	Applicant(s)			
Office Action Summary		10/510,94	5	SHIRAISHI, YASUHIRO			
		Examiner		Art Unit			
		Paul Kim		2857			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
THE - External after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPI MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. or period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statureply received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	136(a). In no ever ply within the statu d will apply and will ite, cause the appli	nt, however, may a reply be tim tory minimum of thirty (30) days expire SIX (6) MONTHS from cation to become ABANDONE	nely filed s will be considered timel the mailing date of this c D (35 U.S.C. § 133).			
Status							
1)⊠	Responsive to communication(s) filed on 13 (October 2004	<u>!</u> .				
2a) ☐ This action is FINAL . 2b) ☑ This action is non-final.							
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	ion of Claims						
5)□ 6)⊠ 7)□	Claim(s) 1-5 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1-5 is/are rejected. Claim(s) is/are objected to. Claim(s) is/are objected to restriction and/or election requirement.						
Applicati	ion Papers						
9)[The specification is objected to by the Examin	ner.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority (under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
2) Notice 3) Information	et(s) se of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 er No(s)/Mail Date	8)	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:		O-152)		

DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claim 5 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In the last paragraph of claim 5, it cannot be determined what the claim language implies, particularly the last five lines of the claim starting with "representing electric characteristic..." The relationship between "sampling period" and the rest of the equation cannot be understood. The term "sampling period" is not clearly defined by the specification. The examiner interprets the equation in the last paragraph of claim 5 to correspond to page 12, equations 2 and 4 of the specification.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability-shall not be negatived by the manner in which the invention was made:
- 4. Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ueda et al in view of Handleman.

With regard to claims 1, 3, and 4, Ueda et al teaches a power-saving unit in an inverter that changes operation frequencies of a motor comprising: a power

consumption computing unit that calculates power consumption based on an output voltage (fig, 1, part 11), which is calculated by an output-voltage computing unit (fig. 1, part 10) using an output frequency (¶ 24) and voltage, and an output current of the inverter (fig. 1, part 8); and a power-saving unit that generates an instantaneous power-saving effect (fig. 1, part 9), at the time of inverter operation with respect to commercial operation, from electric characteristic data that result from a comparison of instantaneous power consumption at the time of inverter operation and power consumption at the time of commercial operation calculated by the power-consumption computing unit (¶ 149 & 150). Ueda et al, however, does not teach a display unit being used. Handleman teaches an apparatus that measures operating parameters of an inverter and comprises a display unit for displaying calculated parameters (fig. 2A, part 160). It would have been obvious to one of ordinary skill in the art, at the time of the invention, to modify Ueda et al, so that a display is used, as taught by Handleman, in order to easily convey information to a user.

With regard to claim 2, Ueda et al teaches generating an integration value (¶ 103).

Allowable Subject Matter

5. Claim 5 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

Conclusion

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Art Unit: 2857

6. The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure. Suzui et al and Kandatsu both teach an inverter controller for a

solar cell.

7. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Paul Kim whose telephone number is 571-272-2217.

The examiner can normally be reached on Monday-Thursdays 10:00-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Marc Hoff can be reached on 571-272-2216. The fax phone numbers for

the organization where this application or proceeding is assigned are 703-872-9306 for

regular communications and for After Final communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is 703-308-

0956.

PK

April 28, 2005

MARC S. HUFF SUPERVISORY PATENT EXAMINER Page 4

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